

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

DUBGOOM DIRECTION DIRECT	Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416	
PCT/US04/01583 100			500 1 51HI 1 CI/H LEV410	
International Patent Classification (IPC) or national classification and IPC IPC(7): HoNN 1/409, 1/58, 1/602, and US Cl.: 375/240.01, 240.27 Applicant THOMSON LICENSING S.A. 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of	International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
IPC(7): H04N 1/409, 1/58, 11/02, and US Cl.: 375/240.01, 240.27 Applicant			28 January 2003 (28.01.2003)	
Applicant THOMSON LICENSING S.A. 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of	International Patent Classification (IPC)	or national classification and IPC		
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3. This report is also accompanied by ANNEXES, comprising: a	This report is the international Examining Authority under the second seco	tional preliminary examination report, establer Article 35 and transmitted to the applicant	ished by this International Preliminary according to Article 36.	
a.	2. This REPORT consists of	a total of $\begin{tabular}{c} \begin{picture}(10,0) \put(0,0){\line(0,0){10}} \pu$	sheet.	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) carrier(s) carrier(s) carrier(s) carrier(s) carrier(s) fine international paper and industrial application indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. II Basis of the report Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. VI Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VII Certain documents cited Box No. VII Certain observations on the international application Box No. VII Certain observations on the international application Date of submission of the demand Date of completion of this report 26 August 2004 (26.08.2004) Name and mailing address of the IPEA/US Authorized officer Commissioner for Patents P.O. Box 1450 Authorized officer Commissioner for Patents P.O. Box 1450 Authorized officer Commissioner for Patents P.O. Box 1450 Authorized officer Carrier(s)	 This report is also accomp 	panied by ANNEXES, comprising:		
of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. I Basis of the report	a. (sent to the applica	ant and to the International Bureau) a total of	sheets, as follows:	
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Form PCT/IPEA/409 (cover sheet)(January 2004)



	International	application	No.
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PCT/US04/01583

Box No. I Basis of the report
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4)
international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages <u>1-40</u> as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the claims:
pages 41-44 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages 1-10 as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (January 2004)



International application No. PCT/US04/01583

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Box No. V Reasoned statement under Artic	le 35(2) with regard to novelty, inventive ste	ep or industrial
applicability; citations and expla	nations supporting such statement	
1. Statement		
Novelty (N)	Claims 1-14	YES
•	Claims NONE	NO
		,
Inventive Step (IS)	Claims 6, 12 and 14	YES
	Claims 1-5, 7-11, and 13	NO
Industrial Applicability (IA)	Claims 1-14	YES
,	Claims NONE	NO
2. Citations and Explanations (Rule 70.7)		
Please See Continuation Sheet		
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Form PCT/IPEA/409 (Box No. V) (January 2004)





INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/01583

Box No. VII	Certain defects in the international application
The following de	efects in the form or contents of the international application have been noted:
Claim 2 is objecte states 'The method	d to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: The claim do.f claim' it should state 'The method of claim'.
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Form PCT/IPEA/409 (Box No. VII) (January 2004)



International application No. PCT/US04/01583

Supplemental Box			
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Continuation of:

V. 2. Citations and Explanations:

Claims 1-5, 7-11 and 13 lack an inventive step under PCT Article 33(3) as being obvious over Birru et al in view of Naimpally. [claim 1]

As shown in Figure 2, Birru et al teaches the use of a standard (302) and a robust (307) stream for use in a transmission system (300). The streams are mpeg-2 compatible packet streams (paragraph [0029] and [0040]). As further shown in Figure 2, Birru teaches the generating of a composite signal (320). Birru does not specifically teach the encoding process or the delaying of one signal over the other and the decoding of the signal based on an error. Naimpally teaches the mpeg encoding process as shown in Figure 3A. Naimpally further teaches the delaying of one signal over the other as shown in Figure 4. Naimpally teaches the decoding is determined based on the error (channel switching), in which, the standard signal is used during an error and the robust signal is used otherwise in order to prevent a delay in visuals to a viewer (Col 4 Lines 25-45). It would have been obvious to employ the method of Birru with the method of Naimpally as Naimpally provides a means for presenting a signal in a mpeg-2 compatible packet stream and Naimpally provides a means of preventing a delay in visuals to a viewer. [claim 2]

As shown above, Birru teaches the channel encoding of the signals (320, Fig. 2). Birru suggest the signals to be in an mpeg-2 packet format but does not teach the specific steps to obtain the desired format. Naimpally teaches the steps of mpeg encoding (110) and packetizing (114) as shown in Figure 3A. It would have been obvious to employ the method of Birru with the method of Naimpally as Naimpally teaches the method of obtaining the mpeg-2 packetized streams as required by the method of Birru. [claim 3]

Birru teaches the standard stream is 8-VSB modulated (Paragraph [0030]). Birru does not teach the method of modulating the stream. Naimpally teaches the mpeg stream is modulated (320) as shown in Figure 3A. As shown above, it would have been obvious to employ the method of Birru with the method of Naimpally as Naimpally teaches the steps to produce the stream required by Birru. Iclaim 41

As shown above for the rejection of claims 3, Birru requires the streams to be in an mpeg-2 packetized format (paragraph [0040]). Naimpally teaches the mpeg encoding (110) and packetizing (114) as shown in Figure 3A. It would have been obvious to employ the method of Birru with the method of Naimpally as Naimpally teaches the steps to produce the mpeg stream required by Birru.

[claim 5]

Birru further teaches the robust stream is 4-VSB or 2-VSB modulated (Paragraph [0031]). Iclaim 71

Birru teaches the standard stream is backwards compatible (Paragraph [0021], and [0043]-[0044]). Birru teaches the



International application No. PCT/US04/01583

Supplemental Box

generating of the composite signal (320) as shown in Figure 2. Birru does not specifically teach the robust signal being delayed. Naimpally teaches the delaying of the robust signal as shown in Figure 4, in order to provide the standard signal for quick decoding (Abstract). It would have been obvious to employ the method of Birru with the method of Naimpally in order to provide the standard signal first for quick decoding during an error situation. [claims 8-11]

Birru teaches the use of a receiver for receiving the composite signal (Paragraph [0021] and [0064]). Birru does not specifically show a receiver. Naimpally teaches the receiver performing the reverse operations of the encoder as shown in Figure 3B. It would have been obvious to employ the receiver of Birru with the decoding method of Naimpally in order to reverse the encoding processes performed in the encoder. [claim 13]

As shown above Birru teaches the use of a receiver (paragraph [0043]-[0044]). Birru does not teach the selection of a stream based on an error. As shown above for claim 1, Naimpally teaches the selection of a stream based on an error (change of channel) as required by claim 13 (Col 4 Lines 25-45).